



REQUEST FOR BIDS

STATEMENT OF PURPOSE:

The Manchester City Schools is hereby posting this Request for Bid for the renovation of the Westwood Middle School football field. The Manchester City Schools will consider bid packages from qualified contractors. Any firm or bid package which is found not in compliance with the RFB specifications and requirements will be disqualified from the bid. Bids shall be sealed and delivered to the downstairs office of the Manchester City Schools located at 215 East Fort Street no later than 9:00 am (cst), May 31, 2019. A mandatory pre-bid walkthrough will be May 24, 2019, 2:00 pm (cst).

SCOPE OF SERVICES:

Bid is to include labor, material and equipment to renovate the football field, and all areas inside the track.

SPECIFICATIONS.

ATHLETIC TURF

PART 1 -GENERAL

1.1 DESCRIPTION OF WORK:

A. General: The work to be performed under the division of this contract shall consist of all labor, materials, tools, equipment and perform all work and operations necessary for the complete construction of a topsoil based athletic playing field.

1. Site work to establish sub-grade.
2. Laser grading of sub-grade.
3. Installation of topsoil mix profile.
4. Installation of irrigation.
5. Laser grading of finish grade.
6. Installation of rolled Bermuda grass sod.

B. The Contractor shall verify that the sub-grade is in satisfactory condition and at proper elevation prior to beginning work on this section.

1.2 QUALITY ASSURANCE:

A. The project specified herein consists of major construction for the development of natural turf athletic fields. Time requirements for the completion of work are of the essence. Work specified herein requires expertise in several diverse specialty areas of construction including agronomy and turf management.

1.3 SUBMITTAL:

A. Construction schedule: Submit proposed construction schedule, indicating dates for each activity.

B. Written grow in and maintenance guidelines.

C. Topsoil mix for root zone

D. Contractor is to confirm that the sod is acceptable to meet all criteria in the contract.

1.4 DELIVERY, STORAGE AND HANDLING:

A. Sod: Deliver sod so that it will be planted within 24 hours of harvesting to avoid sod drying out.

1.5 JOB CONDITIONS:

A. Existing Conditions: Plant turf only after all sub-grade, top soil and irrigation system have been installed and approved by Owner.

B. Protection: Restrict all foot and vehicular traffic from planted areas after planting until end of establishment period.

1.6 WARRANTY:

A. Work executed under this contract shall be guaranteed for not less than one year. Guarantee period shall begin upon date of completion of planting operations.

B. After 30 day establishment period, Owner will be responsible for grow in and maintenance.

C. Turf: At the end of the 30 day establishment period, the owner or his Representative will inspect the fields and notify the contractor to re-grass any areas larger than 2" square.

PART 2- PRODUCTS:

2.1 BERMUDA GRASS TURF:

A. Bermuda grass shall be Certified "Tifton 419" or equivalent solid sod.

2.2 FERTILIZER:

A. Pre-planting fertilizer shall be incorporated according to the soil test recommendations.

B. At time of planting provide a complete commercial fertilizer with the following ratio of 10-10-10 (Nitrogen, Phosphoric Acid and Potash respectively. Fifty (50) percent of the Nitrogen shall be derived from natural organic sources or urea form and shall be uniform in composition, free flowing and suitable for application by machine. Deliver in standard size, unopened containers showing weight, analysis and name of the

manufacturer.

2.3 IRRIGATION

The irrigation system shall be as follows:

A. WATER SOURCE

Water must be delivered to the site at sufficient pressure and flow to provide maximum performance as shown below:

Pressure Requirement	65 PSI working pressure at field location and elevation 50 PSI at base of sprinkler head
Flow Requirement	25 GPM maximum flow rate 20 GPM minimum flow rate

Water service line, water meter/well, backflow prevention device, pressure controls, check valves, surge protection, etc. and performance of the water source are not a part of these drawings.

B. HEAD LAYOUT

Head layout and spacing is based on field dimensions of field. All heads of each row are spaced equally across the field. All heads within a row are equally spaced along the length of field. Adjusted spacing is shown at ends of field where track begins to narrow the irrigated area. In general head spacing is as follows:

Head spacing = 40'

Lateral spacing = 41'

Head and lateral spacing will vary with dimensions of field. Adjusted spacing will be necessary to avoid overspray onto track. All sprinklers and nozzles should be selected based on sprinkler performance, spacing and arc of coverage, as well as according to field dimensions.

C. PERFORMANCE STATISTICS

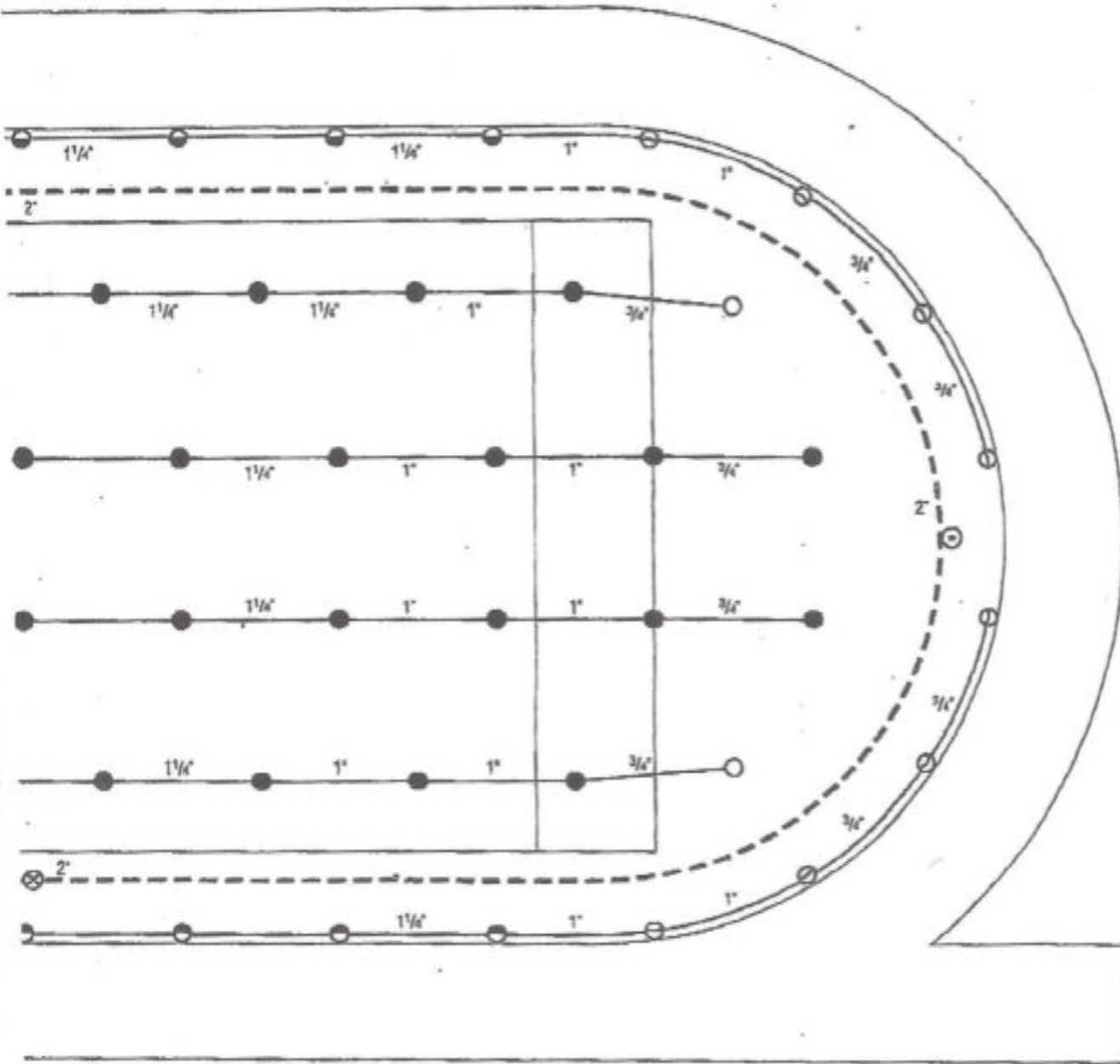
The following calculations were based on information shown on this plan.

Changes in operating pressure, nozzles and/or head spacing will affect results .

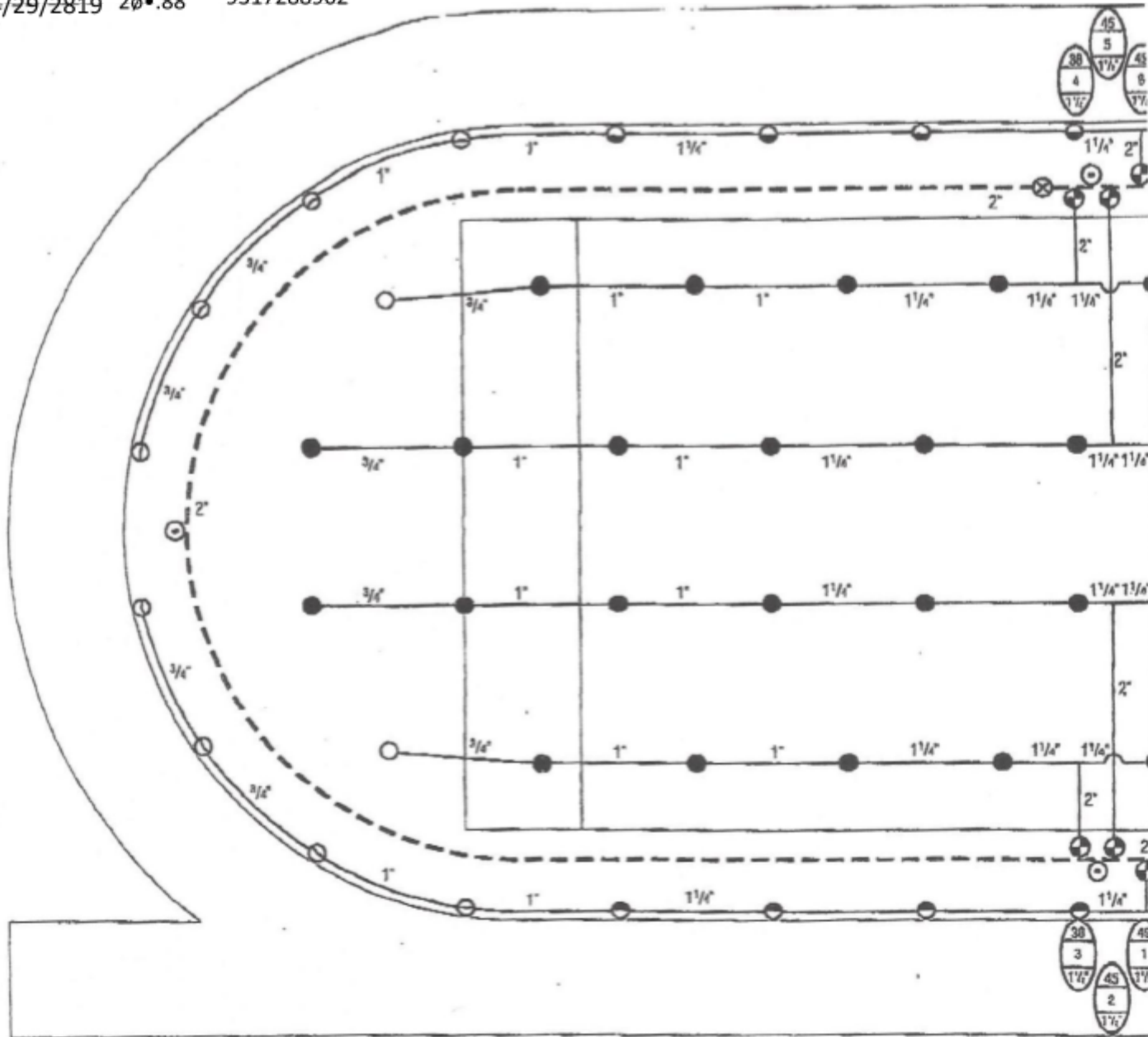
Average precipitation rate Run time for 1" of water	Avg. pr. 360.21 in/hr, 180.43 in/hr 360 Large rotor zones: 4hr 40 min per station
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(based on average precipitation)

18 g e rotor zones: 2hr 20 min per station (based on average precipitation)



mainline 1 1/4"
 (12) Valves 1 1/2"
 wireless rain sensor



Product Option	PSI RPM Radios Arc Units	Product Description	Units
Hunter Full circle	1-20-3654.0 Full 40 3.7	 40' 360° 42' Hunter HO-z Quick-coupling Valve (Optional)	4 Hunter
1-20-ADS-3.040 Full circle	2.4 38 3600 4Gate Valve ror Mainline	 Isolation (Line Size) 3	
Hunter Part circle	1.20-ADS.(.O Part 40 3.7	 180' 16Non-Prccsurn Frpe (PVC Class 160 Recommended)	
Hunter 1-20405-3.0 Part circle 40 2.4 38'	1500 16 Pmssure	 Pipe (PVC Class 200 Recommended)	
Huner ICV•xm-FS-AS Remote Control vave or	6Backflow Prm.ent}on Device	(not Shawn)	
Hunter HBV-m-EP Remoe Control verve		(As Required per Code and/or OrCEance - and for samt)	
Irrigation Controller (8-40Stations as nequleo)			
(not 5twan - locabon as needed)			

2.4 BERMUDA GRASS TURF:

- A.** Prior to planting, the irrigation system should be installed and shown to be in proper working order. When the sod is planted, it is essential that it receives adequate irrigation to prevent drying out and to maintain moisture in the soil profile so the new root system can develop.
- B.** Tifton 419 or equivalent solid sod rolls shall be mechanically planted on playing surface and entire area inside the track by the appropriate track machine or 4-wheel drive tractor equipped with high flotation turf tires.
- C.** Install sod as soon as possible after harvesting.
- D.** After sod is installed, area shall be rolled to ensure firm contact and top dressed if necessary.

END OF ATHLETIC TURF

SUBMISSION.

Bid packages shall be sealed with (1) master copy and delivered to:

The Manchester City Schools Central Downstairs Office

ATTN: Donnie Turner, Facilities Manager

215 East Fort Street, Manchester TN 37355

All bid proposals must be received no later than the posted deadline of May 31, 2019, at 9:00 am (cst). Bid packages submitted after the posted date and time will not be accepted. Bid packages must be sealed and clearly marked with the Bid #, title, and the date of bid opening. Proposals may not be withdrawn for a period of (30) days after the closing date. The Manchester City Schools reserves the right to reject any and all bids.

Please insure that each item is included within your bid package. Failure to provide a complete package of submittals may result in disqualification from the bid process.

Business Name

Authorized Business Representative Name (Print)

_____/_____/_____
Authorized Business Representative Signature Date of Submission

REQUEST FOR BIDS

Public Works Contract

SPECIFICATIONS FOR The Westwood Middle School Football Field

DATE OF RELEASE: May 15, 2019 at 12:00 pm (cst)

DATE OF CLOSING: May 31, 2019 at 9:00 am (cst)